

Montana

General Engineering Planning and Design Guide

for Preliminary Design

	<u>References</u>	✓
DEVELOPING AND EVALUATING ALTERNATIVES		
1. <u>Read and make sure you understand applicable standards</u> in Section IV of the FOTG.	FOTG Sec IV	<input type="checkbox"/> ✕
2. <u>Determine engineering job class.</u> Request technical help if needed.	Job approval NEM 401.04	<input type="checkbox"/> ✕
3. Design alternative practice layout and alignments.	EFH Ch. 5	<input type="checkbox"/>
4. Select structure types, materials.	EFH, MIM, MSPM	<input type="checkbox"/>
5. Perform preliminary hydrology and hydraulics to set elevations, grades, and component sizes.	EFH Ch. 2,3	<input type="checkbox"/>
6. Preliminary quantity and cost estimates for alternative.		<input type="checkbox"/>
7. Make sure the developments are part of a planned Resource Management System (RMS). Plan all aspects of the RMS.	NPM506.12	<input type="checkbox"/>
MAKING DECISIONS AND DOCUMENTING		
1. Present developed alternatives to the operator.	NPM 506.10	<input type="checkbox"/> ✕
2. Make sure the operator has made a decision before proceeding.		<input type="checkbox"/> ✕
3. Document decisions in SCS-CPA-6 planning notes and on the SCS-CPA-68 Record of Cooperator's Decisions.	NPM MT506.31	<input type="checkbox"/> ✕
4. If required, revise the MT-EVC-1 and associated documents.	NPM506.17	<input type="checkbox"/> ✕

✕ This activity or documentation is usually required on each job.